2530

RR-33 Receiver

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July 59

The RR-33 was provided in response to a requirement for a compact crystal-controlled [redacted] to cover the 3 to 12 mc range. STAT

N. A.

xxxxxxxxxx Reception: Crystal controlled AM

3 to 12 mc in one band

xxxxx : Headset

15 ohms

N.A.

6 Volts: 4 penlite cells--internal--4 hrs. operation or 4 mercury cells--internal--120 hours operation or any 6 volt external DC source.

Transistorized

N.A.

N.A.

N.A.

5 3/8 x 3 1/2 x 1 3/4 inches

20 ounces

: The receiver uses double conversion with the first IF at 2.8 mc and the second IF at 455 kc

General purpose [redacted] STAT

Hand or pocket carried

None

Very brief familiarization

Can be maintained by techicians qualified to service transistorized equipment.

Some objectionable spuriouses are present because of the simplicity and low degree of isolation in the RF section.

Since the urgency of the requirement for the RR-33 could not tolerate the time required to develop a complete receiver, a commercially available transistorized portable, the Zenith Model 500-D, was modified to cover the 3 to 12 mc range and repackaged. Circuitry somewhat similar to the CV-2A converter was used in the RF section to provide double conversion. To avoid the broadcast band, the first IF was set at 2.8 mc. The second IF was left at 455 kc which is normal for the Model 500-D. The simplicity of the circuitry used and the resulting low isolation gives rise to some objectionable spurious response. The frequencies to be avoided in preparation of signal plans were determined and listed in the instruction manual. Forty receivers were modified and delivered. The project has been terminated.

The delivery of forty units completed the project.

Photographs are available from [redacted] in the EP section. STAT

None

Unclass.